

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P952482

Luminaire Tested: **GALN-SB6B-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29020 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

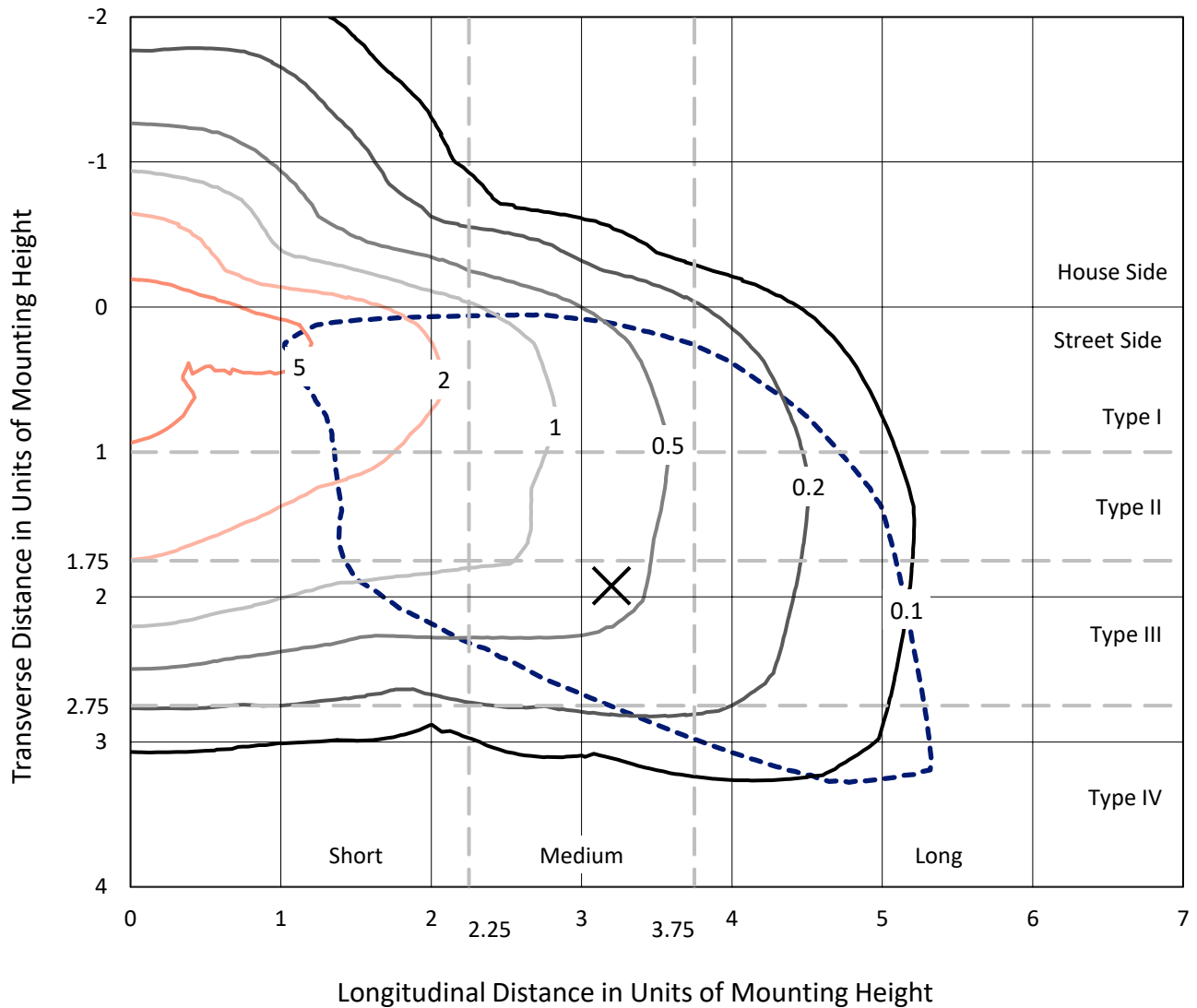
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

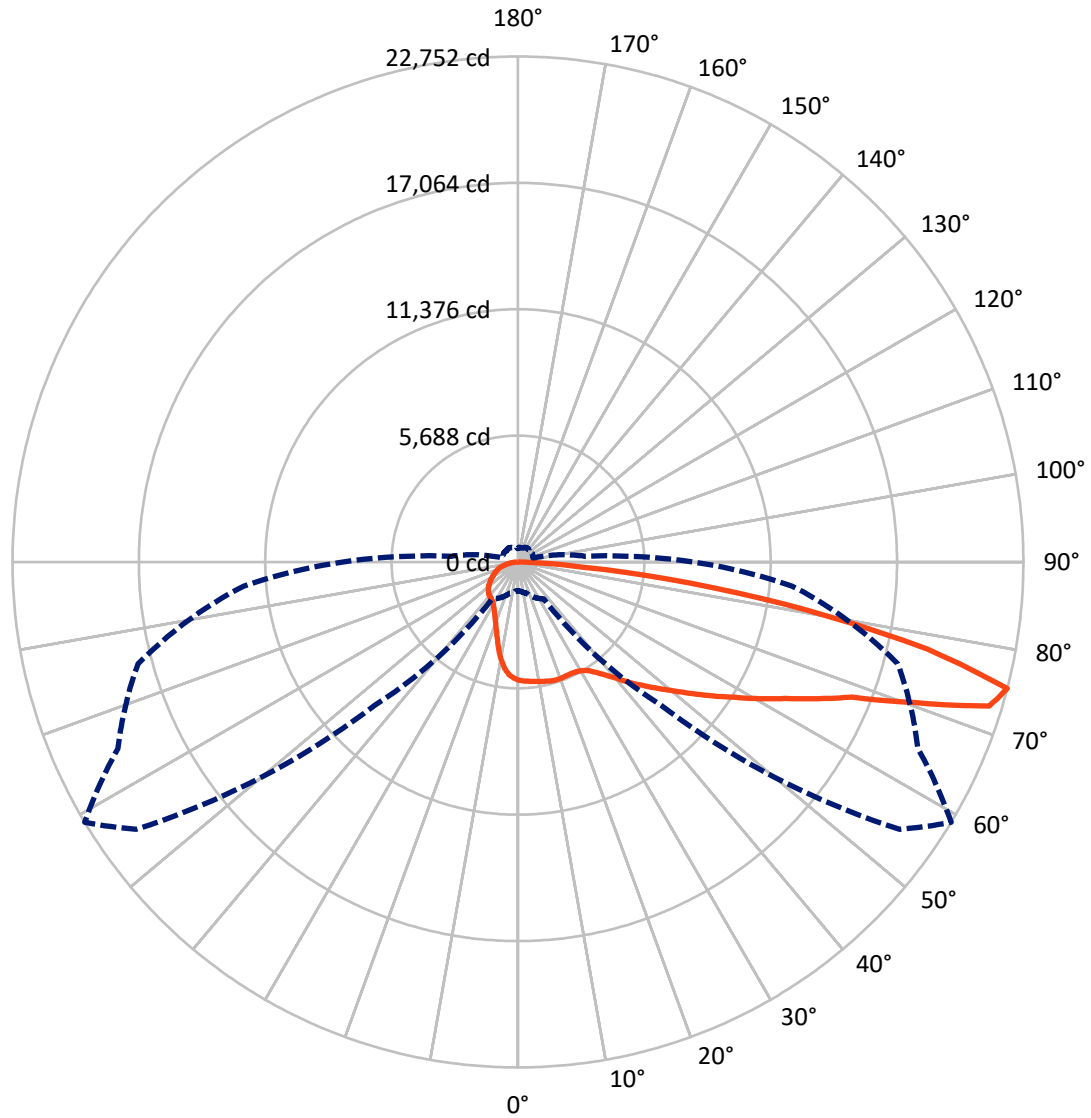
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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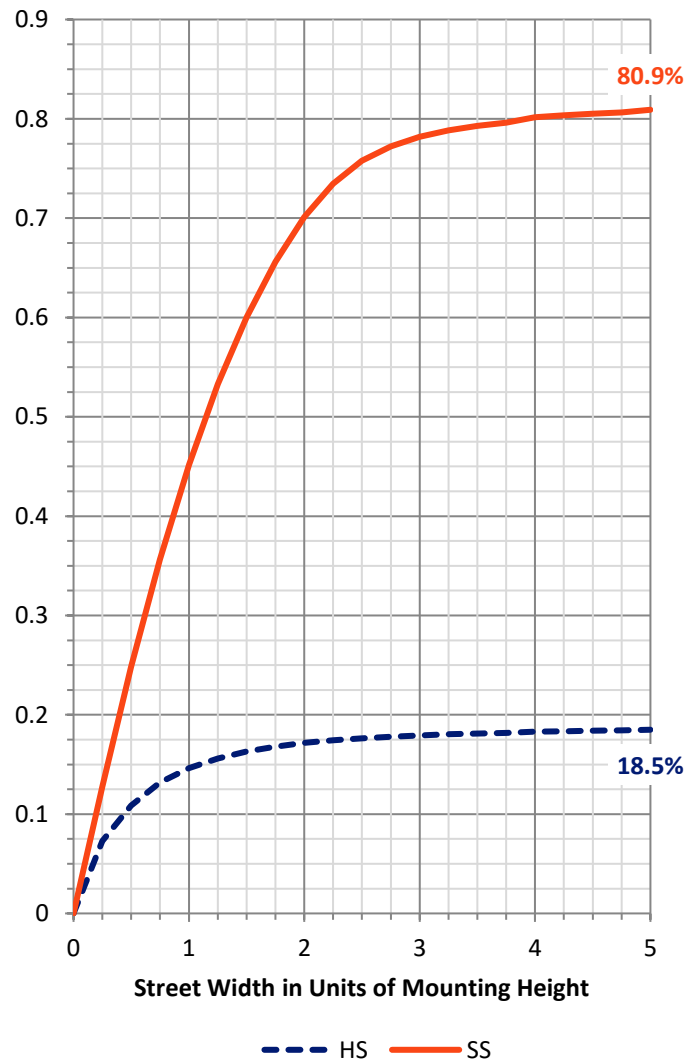
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5442.9	0.0	5442.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23577.1	0.0	23577.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	29020.0	0.0	29020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.6	1.6
10°-20°	1220.8	4.2
20°-30°	1854.3	6.4
30°-40°	2756.4	9.5
40°-50°	4099.2	14.1
50°-60°	5564.2	19.2
60°-70°	6793.0	23.4
70°-80°	5331.0	18.4
80°-90°	923.5	3.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	29020.0	100.0
0°-180°	29020.0	100.0

Coefficient of Utilization



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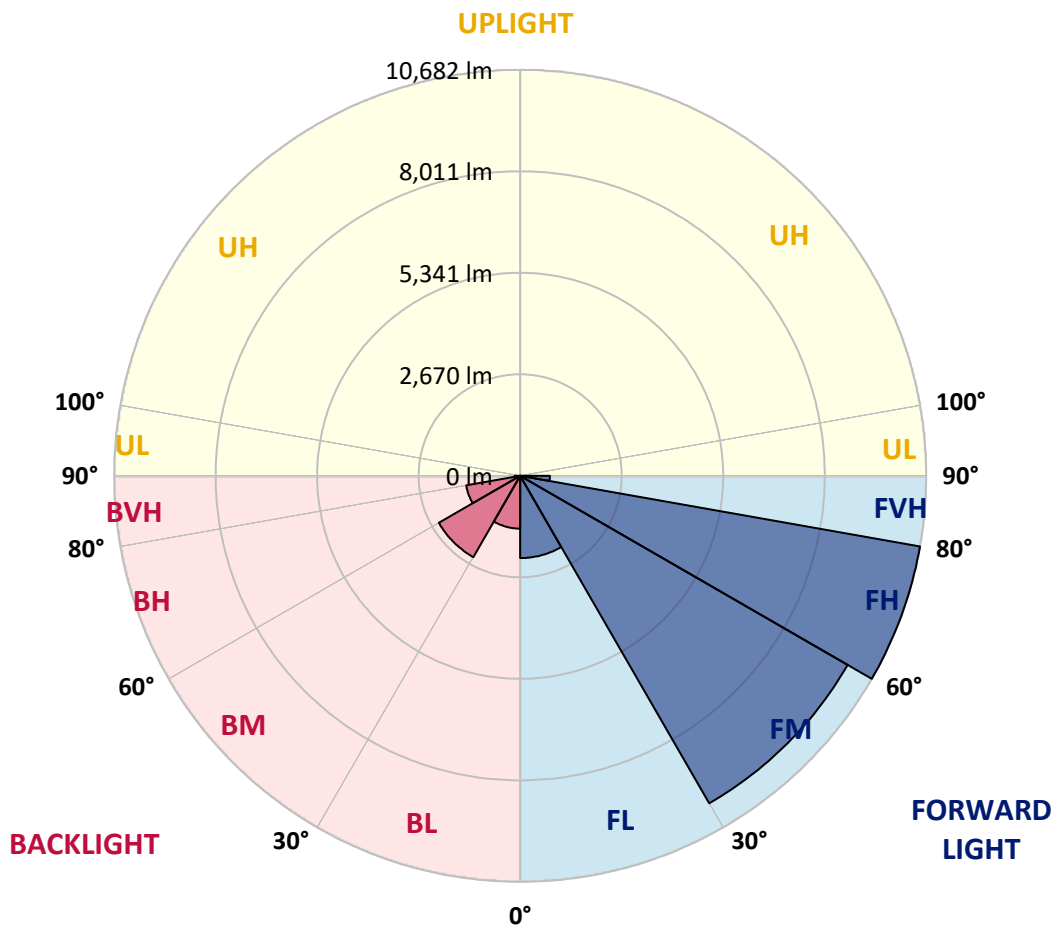
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2163.8	7.5			
FM (30°-60°)	9949.3	34.3			
FH (60°-80°)	10682.0	36.8			G4/12000
FVH (80°-90°)	782.1	2.7			G5
BL (0°-30°)	1389.0	4.8	B3/2500		
BM (30°-60°)	2470.5	8.5	B2/2500		
BH (60°-80°)	1442.0	5.0	B3/2500		G3/2500
BVH (80°-90°)	141.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	5326.6	5326.6	5326.6	5326.6	5326.6	5326.6	5326.6	5326.6	5326.6	5326.6
2.5°	5371.8	5353.1	5371.8	5364.0	5360.9	5354.7	5356.2	5367.1	5360.9	5368.7
5°	5335.9	5325.0	5343.7	5339.0	5359.3	5362.5	5382.8	5395.2	5403.1	5404.6
7.5°	5276.6	5265.7	5292.2	5314.1	5357.8	5370.3	5412.4	5432.7	5443.6	5462.4
10°	5059.6	5054.9	5120.5	5203.2	5306.3	5370.3	5434.3	5468.6	5485.8	5535.7
12.5°	4675.6	4681.8	4767.7	4926.9	5133.0	5339.0	5459.3	5509.2	5535.7	5598.2
15°	4308.7	4307.1	4400.8	4571.0	4859.8	5201.7	5471.7	5557.6	5602.9	5695.0
17.5°	4096.4	4090.1	4155.7	4285.3	4553.8	4990.9	5440.5	5584.1	5680.9	5796.5
20°	4057.4	4044.9	4079.2	4143.2	4333.7	4759.9	5359.3	5584.1	5743.4	5893.2
22.5°	4199.4	4179.1	4165.1	4157.3	4241.6	4569.4	5267.2	5565.4	5835.5	6032.2
25°	4485.1	4453.9	4382.1	4311.8	4286.8	4483.5	5186.1	5560.7	5972.9	6219.5
27.5°	4947.2	4908.2	4763.0	4594.4	4443.0	4527.3	5150.1	5588.8	6124.3	6417.8
30°	5520.1	5478.0	5295.3	5036.2	4764.6	4689.6	5195.4	5671.6	6317.9	6681.6
32.5°	6033.7	5986.9	5830.8	5567.0	5200.1	4970.6	5339.0	5829.2	6622.3	7048.5
35°	6489.6	6435.0	6294.5	6050.9	5734.0	5365.6	5598.2	6108.7	7054.7	7644.8
37.5°	6936.1	6872.1	6719.1	6461.5	6239.8	5891.7	5955.7	6467.7	7629.2	8369.2
40°	7435.6	7343.5	7157.8	6903.3	6687.9	6508.3	6425.6	6908.0	8213.1	9177.9
42.5°	7919.6	7832.2	7610.5	7393.5	7123.4	7071.9	6970.4	7423.1	8851.6	10066.1
45°	8441.0	8336.4	8067.9	7793.1	7623.0	7446.6	7498.1	7938.3	9477.6	10971.6
47.5°	8929.6	8812.5	8495.6	8189.7	8096.0	7761.9	7982.0	8505.0	10128.6	11889.5
50°	9193.5	9077.9	8814.1	8537.8	8464.4	8150.6	8506.6	9127.9	10810.8	12804.3
52.5°	9413.6	9288.7	8943.7	8790.7	8768.8	8573.7	9152.9	9839.8	11493.0	13613.0
55°	9647.7	9508.8	9068.6	8931.2	9031.1	9048.3	9919.4	10646.9	12214.2	14401.4
57.5°	9917.8	9741.4	9188.8	9049.8	9287.1	9604.0	10799.9	11483.6	12923.0	15132.0
60°	10172.3	9994.3	9419.8	9238.7	9563.4	10248.8	11809.9	12496.8	13725.4	15783.0
62.5°	10222.2	10075.5	9604.0	9602.5	9938.1	11001.2	13005.7	13519.3	14426.4	16426.2
65°	9357.4	9265.3	8985.8	9588.4	10475.1	12084.7	14337.4	14827.6	15317.8	16988.2
67.5°	7121.8	7134.3	7114.0	8277.1	10041.2	13641.1	16265.4	16227.9	16418.3	17618.8
70°	3256.5	3329.9	3807.6	5713.7	8044.5	13820.6	19453.2	18967.7	17799.9	18435.3
72.5°	1759.4	1815.6	2010.7	2767.9	4836.4	12287.6	21835.4	22180.5	19637.4	18984.8
75°	1291.0	1322.3	1458.1	1759.4	2031.0	9132.6	20981.5	22751.8	19866.9	17703.2
77.5°	966.3	980.4	1091.2	1394.1	1039.7	4814.5	16764.9	18842.8	17006.9	14545.0
80°	700.9	716.6	799.3	1046.0	729.0	1760.9	11511.7	13225.8	11647.5	9271.5
82.5°	483.9	490.2	526.1	711.9	508.9	683.8	6531.7	7755.7	6502.1	3253.4
85°	291.9	299.7	315.3	415.3	288.8	324.7	2819.4	2916.2	1943.6	777.4
87.5°	120.2	128.0	140.5	174.8	114.0	90.5	465.2	583.9	363.7	227.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5326.6	0°	5326.6	5326.6	5326.6	5326.6	5326.6	5326.6	5326.6	5326.6	5326.6	5326.6
5342.2	2.5°	5334.4	5323.4	5293.8	5253.2	5215.7	5168.9	5148.6	5131.4	5115.8	5086.1
5384.3	5°	5367.1	5337.5	5257.9	5154.8	5037.7	4909.7	4784.8	4699.0	4625.6	4571.0
5432.7	7.5°	5417.1	5360.9	5215.7	5005.0	4736.5	4461.7	4213.5	4037.1	3904.4	3856.0
5501.4	10°	5468.6	5401.5	5148.6	4777.0	4313.4	3890.3	3560.9	3379.8	3273.7	3239.3
5582.6	12.5°	5529.5	5431.2	5044.0	4460.1	3840.4	3376.7	3089.5	2983.3	2928.7	2909.9
5682.5	15°	5618.5	5456.1	4886.3	4063.6	3389.2	3002.0	2816.3	2742.9	2714.8	2713.2
5785.5	17.5°	5685.6	5460.8	4641.2	3639.0	3042.6	2775.7	2622.7	2594.6	2613.3	2641.4
5887.0	20°	5760.5	5418.7	4319.6	3251.8	2799.1	2577.4	2513.4	2532.1	2577.4	2618.0
6021.3	22.5°	5813.6	5342.2	3930.9	2950.5	2588.3	2463.5	2460.3	2499.4	2524.3	2544.6
6178.9	25°	5860.5	5212.6	3518.8	2697.6	2415.1	2394.8	2429.1	2416.6	2399.4	2416.6
6336.6	27.5°	5894.8	5008.1	3150.3	2475.9	2293.3	2347.9	2327.6	2299.5	2298.0	2307.3
6522.4	30°	5883.9	4734.9	2847.5	2265.2	2207.4	2260.5	2212.1	2207.4	2202.7	2207.4
6801.8	32.5°	5883.9	4424.2	2614.9	2120.0	2152.8	2132.5	2127.8	2116.9	2098.2	2096.6
7181.2	35°	5916.7	4113.6	2415.1	2042.0	2107.5	2059.1	2062.2	2035.7	1996.7	1977.9
7683.9	37.5°	5983.8	3863.8	2216.8	2004.5	2027.9	2026.3	2013.9	1968.6	1899.9	1840.6
8311.4	40°	6146.1	3790.4	2081.0	1987.3	1990.4	2009.2	1976.4	1889.0	1732.8	1636.1
8948.4	42.5°	6400.6	3913.7	2051.3	1945.2	1965.5	1984.2	1920.2	1717.2	1606.4	1548.6
9616.5	45°	6723.8	4129.2	2115.3	1884.3	1906.1	1938.9	1748.5	1651.7	1601.7	1603.3
10278.4	47.5°	7132.8	4355.5	2234.0	1831.2	1820.3	1839.0	1634.5	1575.2	1506.5	1523.7
10913.8	50°	7605.8	4585.0	2346.4	1759.4	1725.0	1664.2	1561.1	1504.9	1417.5	1376.9
11527.3	52.5°	8117.8	4806.7	2391.6	1672.0	1622.0	1551.8	1511.2	1442.5	1336.3	1269.2
12106.5	55°	8603.4	5008.1	2341.7	1567.4	1519.0	1464.3	1458.1	1415.9	1302.0	1208.3
12621.7	57.5°	9062.3	5176.7	2216.8	1461.2	1414.4	1381.6	1423.7	1403.5	1259.8	1139.6
13108.8	60°	9451.0	5292.2	2035.7	1353.5	1320.7	1303.5	1367.5	1361.3	1200.5	1066.2
13545.9	62.5°	9760.1	5337.5	1835.9	1250.5	1242.7	1211.4	1289.5	1289.5	1125.6	994.4
13929.9	65°	10002.1	5293.8	1632.9	1149.0	1164.6	1117.8	1194.3	1184.9	1046.0	930.4
14371.7	67.5°	10216.0	5150.1	1408.1	1049.1	1085.0	1025.7	1094.3	1072.5	958.5	866.4
14754.2	70°	10311.2	4816.1	1152.1	949.2	992.9	935.1	994.4	953.8	860.2	797.7
14334.2	72.5°	9546.3	4002.7	907.0	844.6	882.0	835.2	886.7	839.9	754.0	725.9
12378.2	75°	7897.7	3003.6	697.8	730.6	758.7	722.8	757.1	722.8	644.7	665.0
9143.5	77.5°	5735.6	2027.9	533.9	610.4	622.9	604.2	633.8	594.8	524.5	519.9
4556.9	80°	2852.2	1188.0	418.4	482.4	477.7	465.2	499.6	480.8	421.5	446.5
1230.2	82.5°	825.8	508.9	304.4	338.8	329.4	332.5	357.5	366.9	549.5	544.8
382.5	85°	259.1	199.8	182.7	188.9	179.5	184.2	210.8	418.4	387.2	226.4
118.6	87.5°	67.1	68.7	45.3	48.4	50.0	59.3	67.1	254.5	121.8	79.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<u>180°</u>
5326.6
5072.1
4525.7
3771.7
3186.3
2914.6
2719.5
2652.4
2632.1
2555.6
2427.5
2323.0
2224.6
2116.9
1996.7
1860.9
1648.5
1548.6
1611.1
1567.4
1387.8
1267.6
1208.3
1133.4
1061.6
989.8
924.2
860.2
785.2
702.5
607.3
496.4
441.8
557.3
245.1
84.3
0.0

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